

CLAIMS

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

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5 A metal-containing complex exhibiting improved solvent dispersibility, comprising a metal compound, which is substantially insoluble in a solvent, complexed with a dendritic polymer which is soluble in the solvent.

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The complex of claim 1, wherein the metal compound is a metal sulfide.

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The complex of claim 2, wherein the metal of the metal sulfide is cadmium, copper, zinc, lead, iron, silver, cobalt, mercury, bismouth or nickel.

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The complex of claim 1, wherein the metal compound is a metal halogenide.

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The complex of claim 4, wherein the metal of the metal halogenide is silver.

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The complex of claim 1, wherein the metal compound is a metal hydroxide.

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The complex of claim 6, wherein the metal of the metal hydroxide is silver, aluminum, copper or cobalt.

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The complex of claim 1, wherein the metal compound is elemental metal.

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The complex of claim 8, wherein the elemental metal is silver, copper, gold, iron, cobalt or nickel.

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The complex of claim 1, wherein the dendritic polymer is a dendrimer.

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The complex of claim 1, wherein the dendritic polymer is a polyamidoamine dendrimer.

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The complex of claim 1, wherein the dendritic polymer is at least a fourth generation

polyamidoamine dendrimer.

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The complex of claim 1, wherein the metal is a copper oxide.

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5 The complex of claim 1, wherein the metal compound is uranyl phosphate.

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The complex of claim 1, wherein the dendritic polymer is hydrophobically modified.

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10 The complex of claim 15, wherein the dendritic polymer is hydrophobically modified by reaction with an epoxy alkane.

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The complex of claim 16, wherein the metal compound is a metal sulfide, and wherein the metal is copper, silver, cadmium, iron, nickel, manganese, calcium, gadolinium, or aluminum.